

# INFORMATION TECHNOLOGY MAJOR, BS

Campus: NYC, Westchester

## Major Completion Summary

Requirement	Credits
University Core Requirements	44-53
Major Requirements	37-39
Free Electives	19-30
<b>Total Credits</b>	<b>120</b>

## University Core Requirements (44-53 Credits)

See complete University Core (<http://catalog.pace.edu/undergraduate/university-core-curriculum/>) requirements.

Includes several of the major-required courses listed below:

Code	Title	Credits
<b>Foundation Requirements</b>		
MAT 104	Finite Mathematics	3
CIT 110	Introduction to Information Technology	3
<b>Areas of Knowledge</b>		
Two courses for each of the four Areas of Knowledge <sup>1</sup>		24

<sup>1</sup> Including MAT 117 Elementary Statistics

## Major Requirements (37-39)

Code	Title	Credits
<b>IT Foundation</b>		
CIT 110	Introduction to Information Technology	3
CIT 211	Introduction to Computer Systems	4
CIT 221	Global Networking Technology	4
CIT 231	Web Authoring and Digital Media	4
CIT 241	Database Management	4
CIT 251	Computer Security Overview	4
CIT 481 or CIT 471	Capstone in Information Technology Information Technology Internship	4
<b>IT Career Focus Areas</b>		
Select one focus area with a minimum of three courses:		10-12
<i>Security &amp; Information Assurance</i>		
CIT 312	Introduction to Programming I	
CIT 352	Network and Internet Security	
CIT 354	Computer Forensics	
CIT 356	Operating Systems Concepts	
<i>Software Development Focus</i>		
CS 113	Mathematical Structures for Computer Science	
CIT 312	Introduction to Programming I	
CIT 314	Introduction to Programming II	
CIT 342	Systems Analysis and Design	
<i>Networking Focus</i>		
CIT 312	Introduction to Programming I	
CIT 322	Distributed Computing	
CIT 352	Network and Internet Security	

*Information Management Focus*

CIT 342	Systems Analysis and Design
CIT 344	Project Management
CIT 346	Database Programming
CIT 348	Data Mining
<i>Computer Forensics Focus</i>	
CIT 361	Forensic Investigation, Acquisition, and Analysis of Digital Evidence
CIT 363	Computer Forensics, Cyber Law and Evidence Admissibility
CIT 365	Mobile Device Forensics
<i>Interdisciplinary Focus</i>	
Design a 3-course sequence from any discipline, with the approval of the department chair, totaling a minimum of 9 credits. See example below.	
<i>Criminal Justice</i>	
CRJ 150	Introduction to Criminal Justice
CRJ 247	Introduction to Private Security
CRJ 346	Terrorism and Society
<i>Management Science</i>	
MGT 355	Management Science and Production Management Concepts
MGT 356	Simulation and Risk Analysis
<b>Total Credits</b>	<b>37-39</b>

## Free Electives (19-30 Credits)

Code	Title	Credits
<b>Free Electives</b>		
Select 19-30 credits <sup>1</sup>		19-30
<b>Total Credits</b>		<b>19-30</b>

<sup>1</sup> UNV 101 First-Year Seminar: Introduction to University Community is required for all new freshmen.

Note: ENG 105C Composition and Rhetoric, MAT 100 Fundamental Mathematics, and MAT 103 Algebra cannot be used towards the 120 credits for graduation .

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
UNV 101	First-Year Seminar: Introduction to University Community	1
CIT 110	Introduction to Information Technology	3
MAT 103	Algebra	0-3
ENG 110	Composition	3
Learning Community		3
<b>Credits</b>		<b>10-13</b>
<b>Spring</b>		
CIT 211	Introduction to Computer Systems	4
Western Heritage (AOK2) or World Traditions and Cultures (AOK3)		3
MAT 104	Finite Mathematics	0-3
ENG 120	Critical Writing	4
<b>Credits</b>		<b>11-14</b>
<b>Second Year</b>		
<b>Fall</b>		
CIT 231	Web Authoring and Digital Media	4
CIT 251	Computer Security Overview	4
Western Heritage (AOK2) or World Traditions and Cultures (AOK3)		3
MAT 117	Elementary Statistics	0-4

Second Language I or Civic Engagement (AOK1) elective		3
<b>Credits</b>		<b>14-18</b>
<b>Spring</b>		
CIT 221	Global Networking Technology	4
CIT 241	Database Management	4
COM 200	Public Speaking	3
ENG 201	Writing in the Disciplines	3-4
Second Language		3
<b>Credits</b>		<b>17-18</b>
<b>Third Year</b>		
<b>Fall</b>		
Lab Science		4
Advanced elective course in CIT		4
Choose 2 major electives from the curriculum tab		6
World Traditions and Cultures (AOK3) or Humanistic and Creative Expressions (AOK4)		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
Advanced elective course in CIT		4
Choose 3 major electives from the curriculum tab		10
World Traditions and Cultures (AOK3) or Humanistic and Creative Expressions (AOK4)		3
<b>Credits</b>		<b>17</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CIT 471 or CIT 481	Information Technology Internship or Capstone in Information Technology	4
Advanced elective course in CIT		3
Choose 2 major electives from the curriculum tab		8
Humanistic and Creative Expressions (AOK4) or Analysis of Human, Social, and Natural Phenomena (AOK5)		3
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
CIT 471 or CIT 481	Information Technology Internship or Capstone in Information Technology	4
Humanistic and Creative Expressions (AOK4) or Analysis of Human, Social, and Natural Phenomena (AOK5)		3
Choose 3 major electives from the curriculum tab		10
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>121-132</b>